

102.16 - Titanium Base Alloys (chip and disk forms)

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

Concentration are expressed as mass fraction, in % (unless noted by an asterisk * for mg/kg).

SRM	Description	Unit of Issue	Aluminum (Al)	Boron (B)	Carbon (C)	Chromium (Cr)	Cobalt (Co)	Copper (Cu)	Hydrogen (H)	Iron (Fe)	Manganese (Mn)	Molybdenum (Mo)	Nickel (Ni)
173c	Titanium Alloy UNS R56400 (chip form)	50 g	6.245	0.45*	0.027	0.0165	(0.002)	0.0040	(0.006)	0.2130	(0.002)	0.0068	0.0203
641	Spectroscopic Titanium-Base Standards Titanium Alloy, 8 Mn (A)	disk									6.68		
643	Spectroscopic Titanium-Base Standards Titanium Alloy, 8 Mn (C)	disk									11.68		
647	Titanium Alloy, Al-Mo-Sn-Zr	50 g	5.88		0.006					0.075		1.96	
648	Titanium-Base Alloy 5Al-2Sn-2Zr-4Cr-4Mo	50 g	5.13		0.011	3.84				0.15		3.75	
649	Titanium-Base Alloy (15V-3Al-3Cr-3Sn)	50 g	3.08		0.011	2.96		(<0.001)		0.133	(<0.01)		
654b	Titanium Alloy, Al-V	disk	6.34	1.12*		0.025		80*	(0.002)	0.23		0.013	0.028
1128	Titanium -Base Alloy (15V-3Al-3Cr-3Sn)	disk	3.06		0.011	2.96		(<0.003)		0.134	(<0.01)	(0.006)	
2061	TiAl(NbW) Alloy for Microanalysis	cube	30.31										
2431	Titanium Base Alloy	50 g	5.73		0.006	(<0.01)		(<0.01)		0.056	(<0.01)	6.01	(<0.01)
2432	Titanium-Base Alloy 10V - 2Fe - 3Al	50 g	3.15	(<0.001)	0.008	(<0.01)		(<0.005)		1.77	(<0.01)		(<0.01)
2433	Titanium-Base Alloy 8Al-1Mo-1V	50 g	7.63							0.063		0.99	
2452	Hydrogen In Titanium Alloy (Nominal Mass Fraction 60 mg/kg H) (chip form)	10 g							0.00559				
2453a	Hydrogen In Titanium Alloy (Nominal Mass Fraction 125 mg/kg H)	10 g							0.01268				
2454a	Hydrogen in Titanium Alloy (Nominal Mass Fraction 215 mg/kg H)(pin form)	10 g							0.02160				

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SRM	Description	Unit of Issue	Niobium (Nb)	Nitrogen (N)	Oxygen (O)	Ruthenium (Ru)	Silicon (Si)	Sulfur (S)	Tin (Sn)	Titanium (Ti)	Tungsten (W)	Vanadium (V)	Zirconium (Zr)
173c	Titanium Alloy UNS R56400 (chip form)	50 g		0.028	0.164	(0.0006)	0.019		0.010	89.15	(0.002)	4.154	0.0053
641	Spectroscopic Titanium-Base Standards Titanium Alloy, 8 Mn (A)	disk											
643	Spectroscopic Titanium-Base Standards Titanium Alloy, 8 Mn (C)	disk											
647	Titanium Alloy, Al-Mo-Sn-Zr	50 g		<0.01					2.02			<0.02	3.90
648	Titanium-Base Alloy 5Al-2Sn-2Zr-4Cr-4Mo	50 g		(0.01)			0.027		1.98				1.84
649	Titanium-Base Alloy (15V-3Al-3Cr-3Sn)	50 g		(0.01)					3.04			15.1	
654b	Titanium Alloy, Al-V	disk			(0.17)		0.045	(0.001)	230*			4.31	0.008
1128	Titanium -Base Alloy (15V-3Al-3Cr-3Sn)	disk		(0.01)					3.04			15.13	
2061	TiAl(NbW) Alloy for Microanalysis	cube	10.78	(0.004)	(0.232)					53.92	4.38		
2431	Titanium Base Alloy	50 g					0.088		1.98		<0.001	<0.01	4.06
2432	Titanium-Base Alloy 10V - 2Fe - 3Al	50 g					0.029				<0.001	10.00	<0.01
2433	Titanium-Base Alloy 8Al-1Mo-1V	50 g										0.98	
2452	Hydrogen In Titanium Alloy (Nominal Mass Fraction 60 mg/kg H) (chip form)	10 g											
2453a	Hydrogen In Titanium Alloy (Nominal Mass Fraction 125 mg/kg H)	10 g											
2454a	Hydrogen in Titanium Alloy (Nominal Mass Fraction 215 mg/kg H)(pin form)	10 g											

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